

METHOD FOR MANAGING A PHOTOVOLTAIC SOLAR MODULE AND A PHOTOVOLTAIC SOLAR MODULE

5

Abstract

In a solar module (1) comprising a plurality of individual solar cells (2) connected together electrically in series, with at least one solar cell (5, 6) exposed to the same conditions and not linked to the other solar cells, which serves as sensor of the instantaneous incident light on the solar module and with a switching device (8) able to be slaved at least indirectly to the sensor so as to act on the output electric power of the solar module, according to the invention, at least two solar cells (5, 6), which are disposed a large distance apart, are provided as sensors whose output voltages or currents are conveyed to an evaluation circuit (7) and are compared with one another by the latter, and the evaluation circuit (7) connects by means of the switching device (8) a shunt which bypasses the series circuit of the solar cells (2) of the solar module (1) when a difference which exceeds a threshold value exists between the outputs of the two sensors.